

What is claimed is:

1. A removable hard disk module installed in a module fixing device, the removable hard disk module comprising:

5 a module sidewall;

a first sliding device fixed on the module sidewall, wherein the first sliding device further comprises a buffer device therein; and

a second sliding device fixed on the module sidewall and behind the first sliding device, wherein the first sliding device and the second sliding device support the removable hard disk module so that the removable hard disk module slides in the module fixing device.

2. The removable hard disk module of claim 1, wherein the first sliding device is a shock absorption device made of a plastic material.

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3. The removable hard disk module of claim 1, wherein the plastic material is POM or ABS.

4. The removable hard disk module of claim 1, wherein the second sliding device is made of a metal pin or a high strength pin.

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5. The removable hard disk module of claim 1, wherein the module fixing device further comprises a supporting wall, the supporting wall further comprising a slim slide to support the removable hard disk module so that the removable hard disk module slides in the module fixing device.

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6. The removable hard disk module of claim 5, wherein the slim slide further comprises a slim slide buffer device to couple to the second sliding device.

5 7. The removable hard disk module of claim 5, wherein the removable hard disk module further comprises a handle at a front portion thereof for convenient installation or removal of the removable hard disk module.

10 8. The removable hard disk module of claim 7, wherein the handle further comprises a push block to push the slim slide so as to release conveniently the removable hard disk module from the module fixing device when the handle is open.

15 9. The removable hard disk module of claim 1, wherein the first sliding device further comprises a convex sliding surface for contact with the slim slide.

10 10. The removable hard disk module of claim 1, wherein the buffer device is made of a shock absorption rubber.

20 11. The removable hard disk module of claim 1, wherein the first sliding device and the second sliding device are about 1 mm thick.

12. A removable apparatus utilized in a server rack for installing an electrical device in the server rack, the removable apparatus comprising:

25 a removable module for fixing the electrical device therein, wherein the removable module further comprises:

a module sidewall;
a first sliding device fixed on the module sidewall, wherein the first sliding
device further comprises a buffer device therein; and
a second sliding device fixed on the module sidewall and behind the first
5 sliding device, wherein the first sliding device and the second sliding
device support the removable hard disk module and the removable hard
disk module slides in the module fixing device; and
a module fixing device, wherein the module fixing device further comprises:
a supporting wall; and
10 a slim slide fixed on the supporting wall to couple to the first sliding device
and the second sliding device of the removable module, wherein the
removable module is installed and slides in the module fixing device.

13. The removable apparatus of claim 12, wherein the first sliding device further
15 comprises a convex sliding surface for contact with the slim slide.

14. The removable apparatus of claim 12, wherein the first sliding device is a
shock absorption device made of a plastic material.

20 15. The removable apparatus of claim 14, wherein the plastic material is POM or
ABS.

16. The removable apparatus of claim 12, wherein the second sliding device is
made of a metal pin or a high strength pin.

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17. The removable apparatus of claim 12, wherein the buffer device is made of a shock absorption rubber.

18. The removable apparatus of claim 12, wherein the slim slide further
5 comprises a slim slide buffer device to couple to the second sliding device.

19. The removable apparatus of claim 12, wherein the first sliding device and the second sliding device are about 1 mm thick.

10 20. The removable apparatus of claim 12, wherein the server rack is a 1U server rack and four the removable apparatuses are configured in the 1U rack in a horizontal width direction.